

DETERMINATION OF NONYLPHENOL, BISPHENOL A, p-TERT-OCTYLPHENOL, NONYLPHENOL MONOETHOXYLATE AND NONYLPHENOL DIETHOXYLATE IN ENVIRONMENTAL WATERS BY GAS CHROMATOGRAPHY MASS SPECTROMETRY BY ASTM D7065-06

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Facility Name: _____ VELAP ID: _____

Assessor Name: _____ Analyst Name: _____ Inspection Date: _____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
<i>Records Examined:</i> SOP Number/ Revision/ Date _____ Analyst: _____ Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
Were solvents, reagents, glassware, and other apparatuses routinely demonstrated to be free from interferences by the analysis of method blanks?	6.1				
Was glassware cleaned with acetone and methylene chloride after washing?	6.2				
Was reagent water demonstrated to not contain contaminants at concentrations significant to interfere with the analysis?	8.2				
Were grab samples collected in glass sample containers?	10.1.1				
At sampling, were samples iced or kept at 0 to 4°C without freezing?	10.1.1				
At preservation, were samples adjusted to a pH 2 with H ₂ SO ₄ and stored at 0 to 4°C until extraction?	10.2.1				
Were samples extracted within 28 days of collection?	10.2.1				
Were extracts analyzed within 40 days of extraction?	10.2.1				
Was the instrument calibrated with 5 calibration standards?	12.1				
Were calibration standards, once diluted in methylene chloride, stored at 0°C or less?	12.2.3				

Notes/ Comments:

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Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments	
[If calibration curves were not used] Was the Relative Response Factor (RRF) of each target and surrogate compound in the calibration?	12.2.5					
Only if the RRF was <35% RSD over the entire working range, was the Average Response Factor (ARF) used for calculations?	12.2.6					
Was "Table 4" in the reference method used to determine which Internal Standard [if IS calculations were used] were used to quantify the analytes?	12.2.5					
For DOCs, were the average and percent recovery data compared to the criteria in "Table 5" of the reference method?	12.3.2					
Was the LCS taken through all steps of the analytical method including sample preservation and pretreatment?	12.4.1					
Was an LCS included with each batch of 20 samples or less?	12.4.1					
Was the LCS concentration approximately near the midpoint of the curve?	12.4.1					
Did the LCS results fall within the limits of "Table 5"?	12.4.1					
Was at least one matrix spike included with each batch?	12.6.1					
Did the results of the matrix spike meet the limits of "Table 5"?	12.6.4					
Was a matrix duplicate analyzed with each batch?	12.7.1					
Did the RPD of the matrix duplicate meet the limits in "Table 5"?	12.7.2					
Before analyzing any samples, did the m/z criteria of the DFTPP performance check meet the limits in "Table 6" of the reference method?	12.10					
Was the RRF of a mid-level calibration verification verified each working day and after each set of samples before the expiration of the 24-hour clock?	12.11					
Notes/ Comments:						

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Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Liquid-Liquid Extraction					
Was the alkylphenol surrogate spike solution added to samples in the extraction apparatus?	13.1				
Was the pH of the samples verified to be pH <2 after the sample was added to the extractor?	13.1				
After extraction into methylene chloride, were extracts dried over anhydrous sodium sulfate until new additions of sodium sulfate remained "silty"?	13.2				
Was Internal Standard added to the extract in the vial?	13.2				
Optional Separatory Funnel Extraction					
Were separatory funnels rinsed with de-ionized water, then acetone, and finally methylene chloride prior to use?	13.3				
Was the surrogate (and spiking compounds) added to the sample in the separatory funnel?	13.3				
Was the pH of the samples <2 prior to extraction?	13.3				
Were samples extracted 3 times with 60 mL portions of methylene chloride?	13.3				
Did each of these 3 extractions involve vigorous shaking for 10 minutes?	13.3				
If emulsions formed, were proper emulsion breaking techniques used?	13.3				
Were extracts dried with anhydrous sodium sulfate?	13.3				
Notes/ Comments:					